

Glass Classification EDA

Dataset

	Id	RI	Na	Mg	Al	Si	K	Ca	Ba	Fe	Class
0	1	1.5197	12.7178	3.6736	0.7065	75.0186	1.7549	6.2385	1.1781	0.0862	3
1	2	1.5328	11.3605	0.6523	2.0225	73.2033	2.8484	9.1518	0.8792	0.1871	6
2	3	1.5278	11.5703	4.2496	2.2654	71.6771	0.6161	12.6011	2.0329	0.3428	6
3	4	1.5248	11.9315	3.7861	1.9197	74.7521	2.7749	8.7152	0.1216	0.2012	2
4	5	1.5147	12.0843	4.1257	1.9515	73.2753	1.2611	11.6079	0.5524	0.4465	3

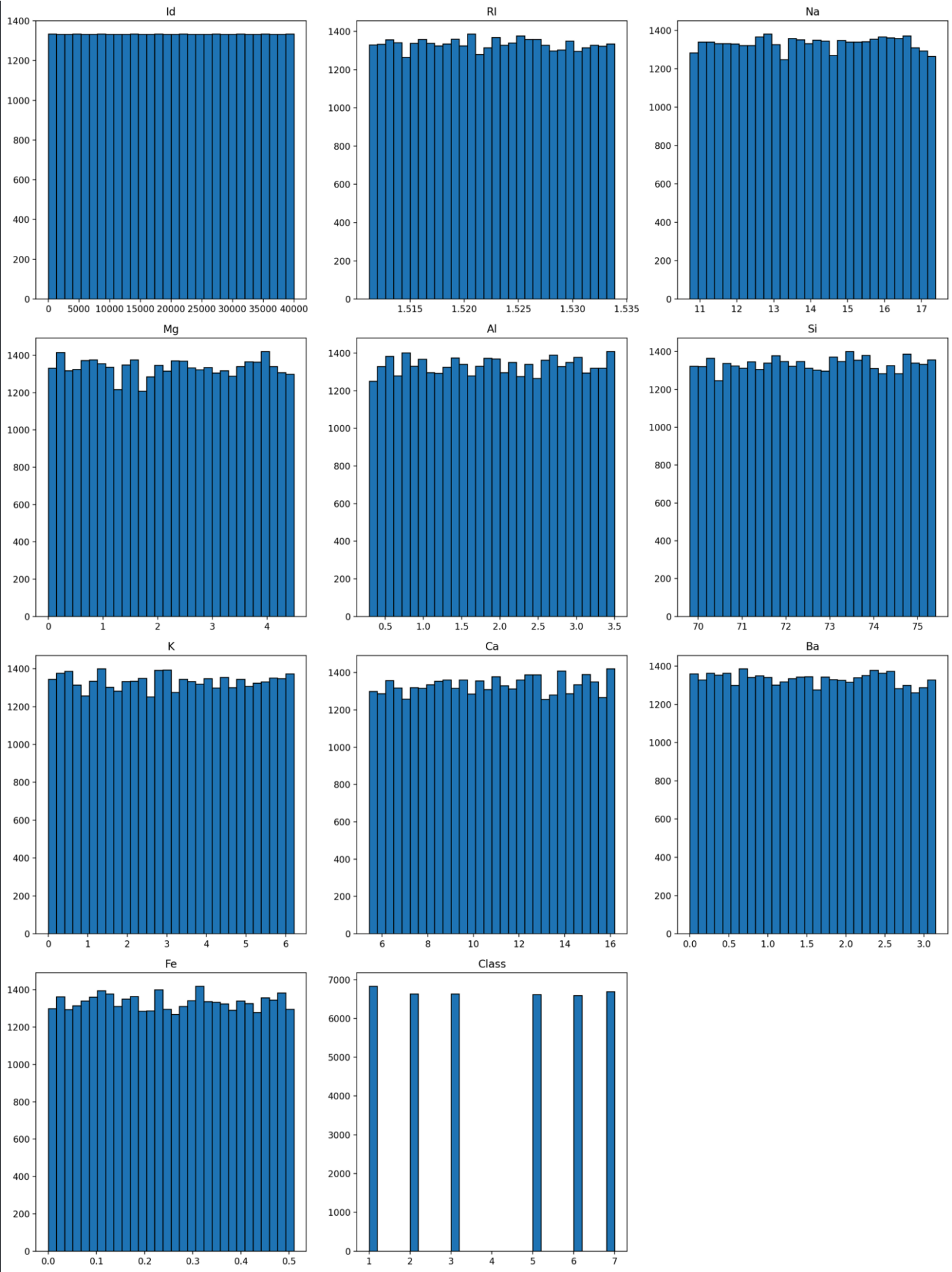
Missing Values

	0
Id	0
RI	0
Na	0
Mg	0
Al	0
Si	0
K	0
Ca	0
Ba	0
Fe	0

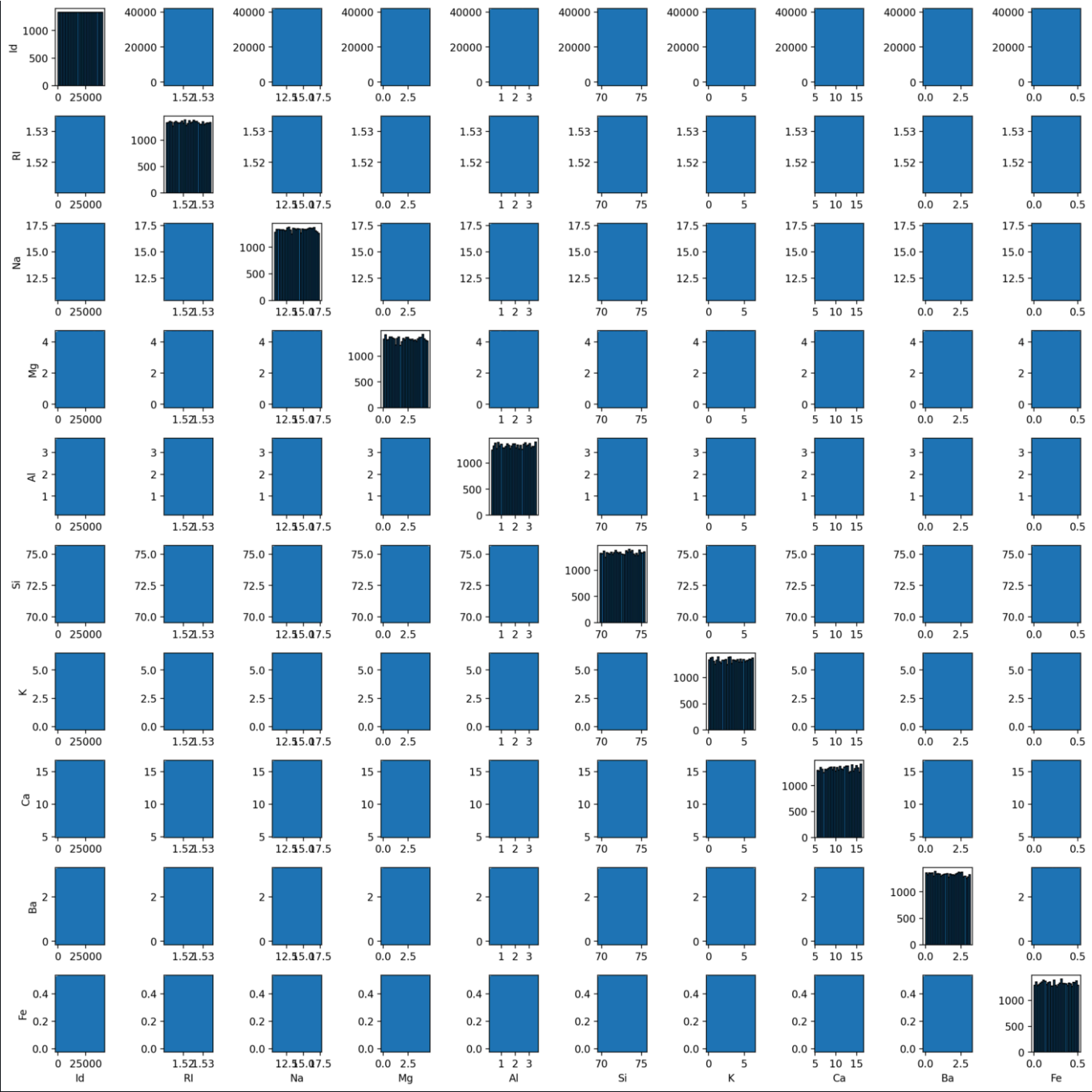
Statistics

	Id	RI	Na	Mg	Al	Si	K	Ca	Ba	Fe	Class
count	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000
mean	20,000.5	1.5225	14.0567	2.2434	1.8998	72.6172	3.1056	10.8364	1.5672	0.2549	3.9869
std	11,547.1497	0.0065	1.914	1.3	0.927	1.6143	1.798	3.1021	0.9085	0.1472	2.1672
min	1	1.5112	10.7301	0.0001	0.29	69.81	0	5.4302	0	0	1
25%	10,000.75	1.5169	12.4048	1.1057	1.0937	71.2233	1.5406	8.1699	0.777	0.1269	2
50%	20,000.5	1.5226	14.0593	2.2534	1.8991	72.6233	3.0953	10.8545	1.5645	0.2546	3
75%	30,000.25	1.5282	15.7229	3.3746	2.7024	74.0007	4.6609	13.5292	2.3533	0.382	6
max	40,000	1.5339	17.3798	4.49	3.5	75.4099	6.2099	16.1891	3.1498	0.51	7

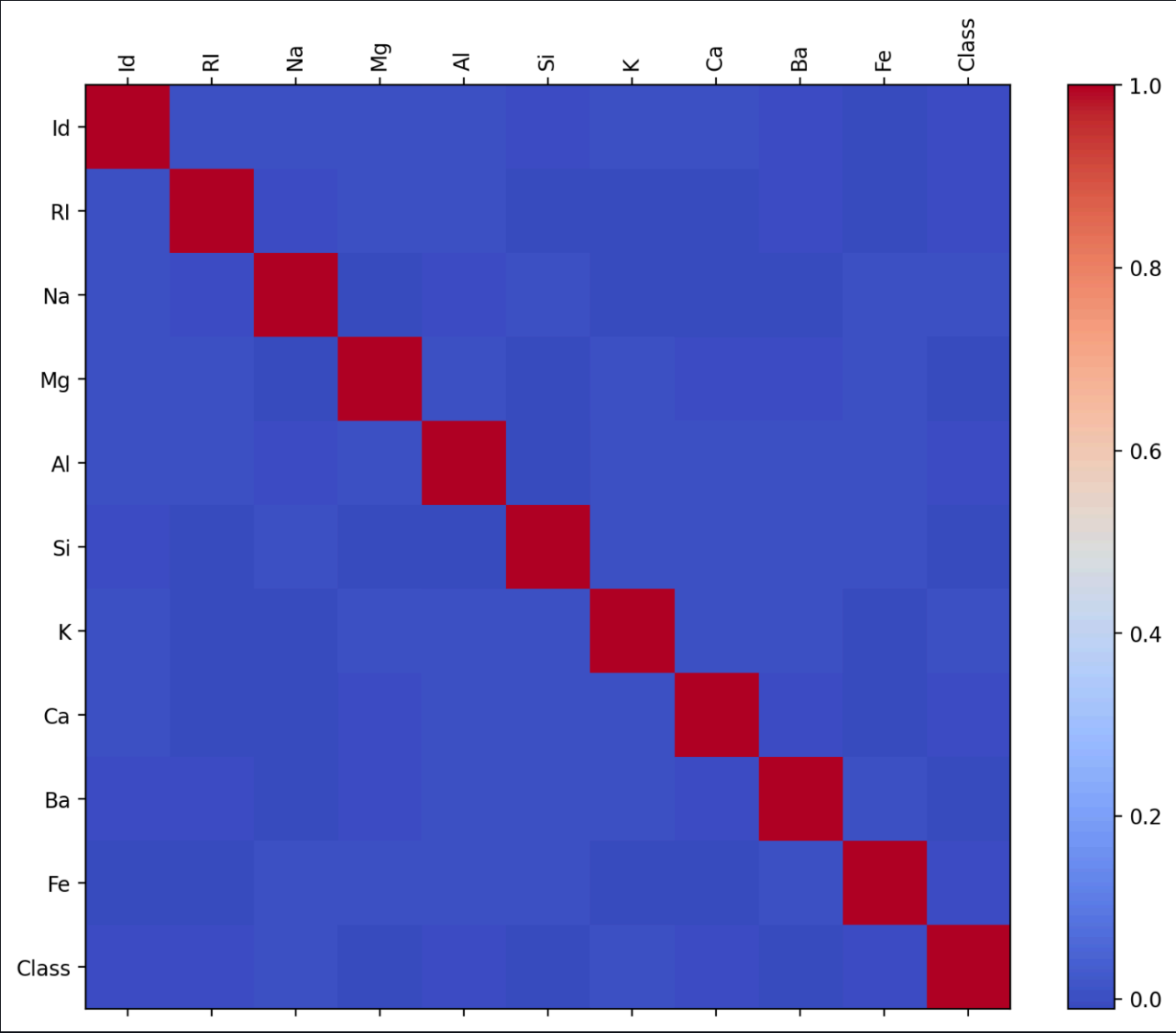
Feature Distributions



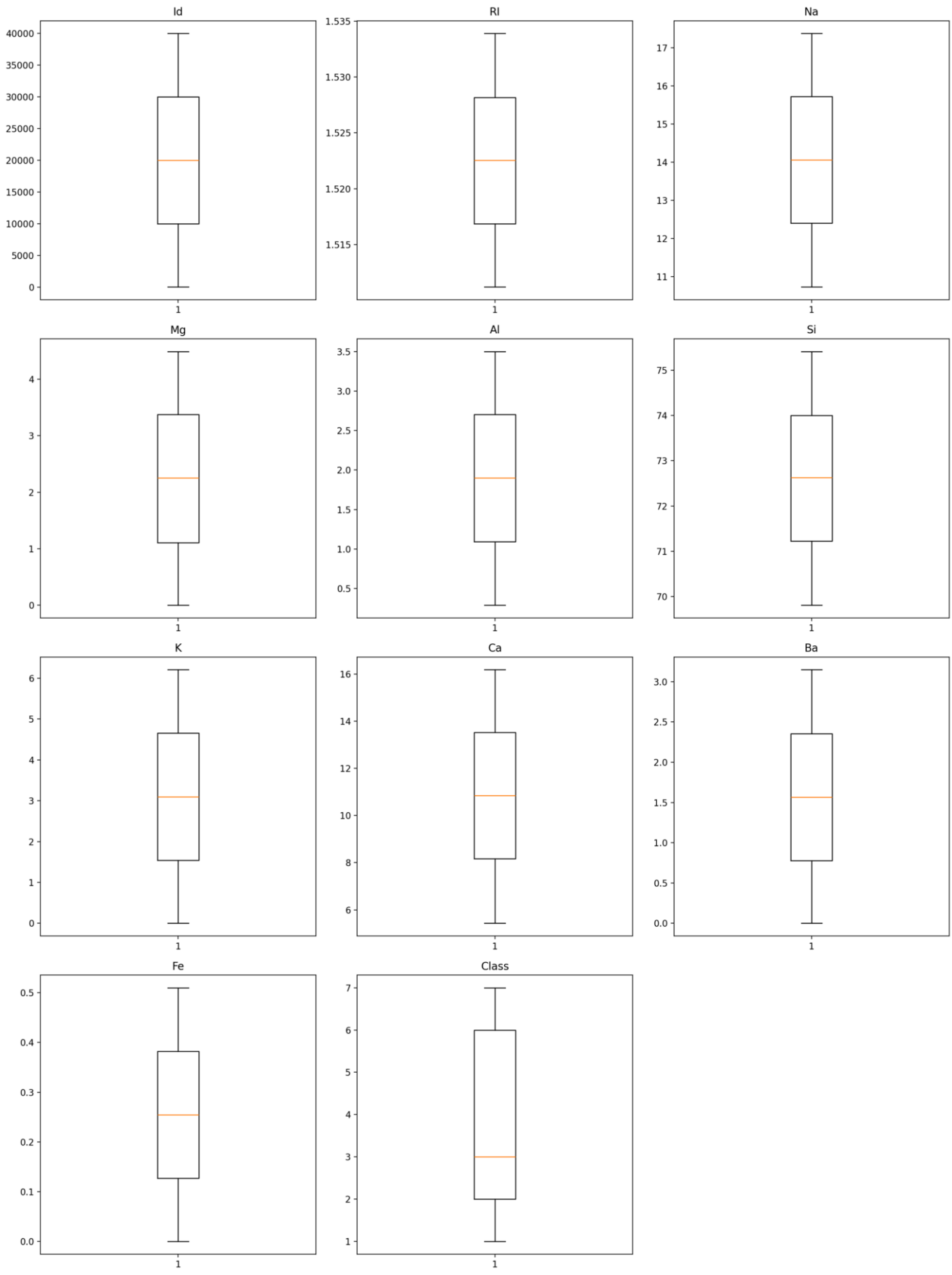
Pairplot



Correlation Heatmap



Boxplots



Class Distribution

